



President's Pen

Reflections from the Creek Bank

At this time of year we can't help but look back on the previous year and see how it affected us and how we handled each situation. DCVA is no different. As the ear, eyes, nose, and voice of the Watershed, DCVA was very active in 2011. At this time of year we also make lists. I am no different. So without further ado, here is my list of five issues and events that have or continue to be a major part of our watershed. You could also call it, "The Good, The Bad, and The Ugly!"

1. The first is the continuing issue of fracking upstate. The state continues to downplay the environmental impact and its potential ecological consequences to the local area and all communities downstream. DCVA has been very active in letting the governor and State know that we are very concerned with the lack of oversight of this industry. We have submitted position letters to the Governor and to local newspapers. The letter is also on our web-site. I would urge all of you to visit the web-site, read the letter, and contact your local politicians and let them know that we are watching very closely.

2. The second on the list are really two items; the Clearview and Folcroft Landfills, both sites have been designated as superfund sites in the Lower Darby Creek Area. The landfills run directly adjacent to Darby Creek and drain into the stream. DCVA has recently reviewed the Remedial Investigation (RI) for the Clearview site. The Folcroft site RI is not yet available. Recently, we sent a letter to EPA outlining our concerns pertaining in the RI, issues that were addressed or not addressed or not addressed adequately. The letter appears on the web-site. Again, I urge you to read the letter and contact your local politicians. The stream knows no political barriers. Anything draining into the stream will make its way downstream to your neighborhood.

3. The third item is the Haverford Reserve. This site continues to be one of the new jewels in the watershed. Construction of the Rec/Environmental center continues and is scheduled for completion this spring. The Haverford reserve is a watershed success story. The Reserve is a model of community success where everybody did not get every thing. Some wanted all trails, some wanted all residential, some wanted all taxable, heck, some wanted a golf course! What the community got was a lot of everything. Uhm, well not the golf course. Haverford Reserve is a wonderful mix of residential properties, playing fields, trails, and meadows. The history of the development of the Haverford Reserve should be used as a template for other sites up and down Darby Creek. And DCVA continues to play an important role at this amazing local landmark!

(Continued on Page 4)

Mark Your Calendars

**DCVA
2012 Annual Meeting**

**March 3, 2012
9:30 - 2:00**

**Peace Center of Delaware County
1001 Old Sproul Road
Springfield, PA**

Speaker:

Tim Denny

**Discussion of current developments at
the Haverford Reserve**

Committee reports and updates on the exciting work being done by the members of the DCVA

Come join us and learn more about the things you read about in this newsletter

Bring your ideas and suggestions for projects and improvements in the watershed

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DCVA Remembers William J. Frasch Jr.

Contributed by Jon Furth and Fritz Thornton

One of our founding members, Bill Frasch, died Sunday, November 13, 2011. He was 92. A resident of Darby for over 60 years before moving to Glen Mills in 2006, he was on the DCVA Board for at least 25 years, and Vice President of the DCVA for several terms.

From working or speaking with him one would never know that Bill not only did not attend college but he didn't graduate from high school either. He did get a GED. He dropped out of high school when, I believe, his father took off and he had to help the family survive the Depression. He was drafted somewhat late in WW II and served in Germany during the Nuremberg trials. There he noted that his fellow soldiers were discarding books they received from home (read or unread). What a waste, Bill thought, and proceeded to create a library. This experience led Bill to become involved with the Darby Library which he served in many capacities, including Treasurer.

While employed by Met Life as an Insurance salesman for over 30 years, he was active in School affairs, as a member and President of the Darby Borough School Board. He also served on the Delaware County School Board, supporting the merger with Lansdowne and Yeadon and the creation of the Delaware County Community College.

Bill was a very active DCVA board member always providing written reports on all activities, attending as many meetings and site visits as he could. He was a continuous positive force in our organization, completing anything asked of him and more.



Bill Frasch and Bob Doherty showing off T Shirts at the 1998 DCVA Annual Cleanup



Bob Doherty, Clyde Hunt, Andy Saul join Bill Frasch at a DCVA "Oldies Reunion" luncheon

Among his many activities as a DCVA Board Member two were serving on the Committee selecting the Planner for our River Conservation grant from the PA DCNR and then monitoring progress on the grant that led to our River Conservation plan for the Darby Creek watershed, and the TAG grant.

The TAG [Technical Assistance Grant] was and is essentially a "pass through" grant for a Consultant to relate the results of a study by the EPA grant of superfund sites as to what pollutants were present and what to do with mitigating the hazards and, if possible putting the land to some constructive use. No organization had volunteered to take on the task for the Clearview and Folcroft Landfills in eastern Delaware County. Bill accepted the challenge, wrote the grant proposal which was competitively bid. There were no other bids so DCVA obtained the grant. He then chaired the Committee to obtain the Technical Advisor who had to be chosen by competitive bidding and then managed the grant for several years. Given the number of reports required by the EPA (quarterly and yearly) this was no small chore.

At a memorial service held November 20th at the Marvil funeral home in Darby his son and two daughters spoke eloquently of their dad. One daughter spoke of the consequences of attending a school where her father was President of the School Board. One time her girl's hockey team was evicted from their field by the boy's football team. Without permission they went over to practice on the boy's field. She was concerned that her father would be angry when he found out. He wasn't. "You did what you thought was right," he said.

She also mentioned a time when the Darby basketball team made the State Championship game upstate. A bus load of students and family went upstate only to be told that there was no room for them in the stands. The Darby team was "integrated", reflecting the community. Board President Frasch had made the trip. "No room for the students and family and our team won't play," Frasch said. Room in the stands was found for the families and students.

TAG update January 2012
Lower Darby Creek Area Superfund Site
Recent Activity
Prepared by Jaclyn Rhoads

Many residents should have received a notice that the US Environmental Protection Agency (EPA) has begun removal of soils at the southern end of the Clearview landfill which showed elevated levels of polychlorinated biphenyls (PCBs) and polycyclic aromatic hydrocarbons (PAHs) at concentrations that require action. According to the EPA update, the contaminants do not pose a current health concern to residents, but removal is necessary to prevent the contamination from moving into the Darby Creek.

This area was identified in need of removal action based upon samples collected earlier this summer by EPA. Samples were collected from the southern end of the Clearview Landfill as well as Eastwick Park surface soils. The Park did not have elevated levels of any PCBs, PAHs or lead. The soils that will be removed from the southern end of the landfill will be removed from the site or placed under a temporary cap until the final remedy for the landfill is constructed, which may be several years from now.

The TAG team for DCVA will be providing a memo that outlines our comments for the Remedial Investigation Report conducted by EPA. We should be posting the memo on our website by February and will have copies available at our annual meeting. If you would like a copy of the memo and do not have access to the internet or email, please contact Jaclyn Rhoads at 267-221-5274 or if you have email and have additional questions, Jaclyn can be reached at Jaclyn_rhoads@yahoo.com.

The EPA has a website with additional site information: www.epa.gov/reg3hwmd/super/sites/PASFN0305521/index.htm

The EPA contacts are Joshua Barber at 215-814-3393 or Carrie Deitzel 215-814-5525. They are very helpful and open to questions or comments.

If anyone wishes to lead or participate in this Committee contact us at message@DCVA.org or for information about the Grant contact

The Valley is published by DCVA (Darby Creek Valley Association), P.O. Box 732, Drexel Hill, PA, 19026. Website: www.DCVA.org. A regional citizen's organization, DCVA works to protect and enhance the Darby Creek watershed. Articles for this newsletter were written by: John Furth, Anne Jackson, Jaclyn Rhodes, Alan Samel, Fritz Thornton
 Editor: Olga Thornton

Community Liaison Task Force

On September 24 the Board in consultation with Palmer Dalesandro conducted another Strategic Planning Workshop to develop specific plans, time frame and goals for each of the following four focus areas: Education, Technical Issues, Public Policy, and Outreach. The Outreach Committee addressed the Membership and Community Action.

The intent is that the DCVA develop a Community Liaison Committee made up of DCVA members interested in acting as liaison between DCVA and any environmental actions or events occurring within their community. These members would attend local meetings and events and provide insight to DCVA of actions being taken locally which will impact the environment in general or Darby Creek in particular. DCVA could then become involved as deemed necessary. The plan includes setting up regular meetings with the liaisons to report what they have learned, discuss what DCVA can do to help and to develop future plans of action.

To date, Ann Jackson has focused the community liaison efforts on DCVA members who reside in Springfield. All current DCVA members who reside in Springfield are involved in the DCVA Clean-Ups, the Environmental Action Committee and have volunteered in tree plantings in parks riparian buffers along Darby Creek and Little Crum Creek and tributaries. The intent is to expand the success of these efforts to other communities.

Anyone interested in joining this effort should contact us at message@dcva.org or call DCVA at 610-789-1814 or write us at P.O. Box 732, Drexel Hill, PA 29016

Tree Committee Report

Contributed by Ann Jackson and Clyde Hunt

DCVA continues to serve as a catalyst for tree planting in the Darby Creek Watershed. In October, 2011, DCVA members, Ann Jackson, Clyde Hunt, Tim Devaney, Ken Rapp, and Lori Devlin plus volunteers from Williamson Free School of Mechanical Trades, CRC Watersheds, DCNR, Marple Tree Commission, Springfield residents, commissioners, staff, and environmental advisory committee members plus Boy Scouts, Lions Club members and Tree Tenders planted 75 trees in Rolling Green Park, along Darby Creek and in Walsh Park along Levis Run, (a tributary of Darby Creek). Springfield Township in conjunction with Pennoni Associates, Inc. was awarded a Tree Vitalize grant that funded the project. When mature, the trees are predicted to: 1) Reduce nitrogen, nutrient, and pesticide run off by 50%; 2) Reduce sediment deposits by 75%; 3) Intercept 98,000 gallons of rain water/year; 4) Sequester 17,800 pounds of CO2/year. <http://www.treevitalize.net/RiparianBuffer.aspx> and www.treebenefits.org.

And That's Not All! Upper Darby received a memorial gift that would provide 50 trees to be planted at sites in Upper Darby that need trees to control storm water run-off and erosion. Clyde Hunt is selecting the trees, the sites and organizing the planting. Volunteers are needed to help plant in APRIL, 2012. Call Clyde Hunt at 610-440-9333.

Presidents Pen Continued from page 1:

4. The fourth item is hard work! That is, the hard work of the DCVA membership in our continuing quest to improve the health of Darby Creek and the Darby Creek Watershed. Hard work comes in many different packages. It's the legions of volunteers up and down the creek pulling junk out of the stream during the annual cleanup (I am always amazed and stunned that the amount we pull out is always in the tons. I have a vision that one day we will only need one or two dumpsters for the entire watershed). It's the annual streamwatch and the insect identification workshop, monitor the health of the stream by taking samples of the bugs that call Darby Creek their home. The variety of bugs we collect provide an indication of the health of the stream at that point in the stream. And it's the legions of tree planters caring for new and older trees along the stream and in our watershed. These are but a few very important DCVA activities in this watershed.

5. And last, but not least, there is the DCVA Board of Directors. This tireless, sometimes quixotic group meets at least once a month to help chart the course of this organization. We have quite a diversity of Board members. And sometimes we disagree and sometimes we argue. But we always put the watershed first. And we should all thank them for their tireless energy, enthusiasm, and conviction toward the watershed.

That was 2011. And now the top five items for 2012, as I peer into my crystal.

1. The first item is the 2012 DCVA Annual Meeting scheduled for Saturday March 3rd at the Springfield Peace Center. The annual meeting is our showcase meeting for all members and friends of members to attend. The meeting provides an excellent chance for folks to get together and hear about things going on in our watershed. At this meeting, Tim Denny will talk about the development and status of the Haverford Reserve. This success story is truly worth telling and hearing about. We hope to have a few additional speakers and posters that you can view. There will also be posters from each of the committees reflecting on the 2011 activities of each group. I would strongly urge all members to attend the annual meeting. There is more to read about the annual meeting in this newsletter.

2. We will continue to monitor the sites of concern along the stream. These sites include the Clearview and Folcroft superfund sites and the Scott property in Darby Borough, to name a few. Each site has its own unique issues and DCVA continues to be vigilant.

3. We need to continue to monitor the environmental policies in Harrisburg and Washington, D.C. We need to continue monitoring the fracking issue upstate. What happens in that area will have a significant impact on our community. The state Department of Environmental Protection continues to weaken in power under the current political atmosphere in Harrisburg. And we need to continue to push our local politicians. We need to let them know that we are watching and that we are very concerned with the policies affecting us.

4. The fourth item on the list is community activism. By this I mean that we need to get out there and be active in our community. Whether it is participating in the annual clean up, the streamwatch program, or tree planting, we need to be out there. Make an impact in your community. It can be as little as picking up a piece of trash on the street. Get out there! I know that I am preaching to the choir, and I want you to preach to a choir, too!

5. The final item I have is more of a goal for the DCVA organization. We are only as strong as our membership. And the bigger we get, the stronger we will become, and it will be difficult for local and state politicians to ignore our voice. I want us to increase in membership over the next year by at least 10%. You may ask why 10%. I'm not sure, but 10% translates to about 20 new members and that number seems like a goal that is reasonable for us to meet. If you know people who have an interest, at any level, in the watershed and community, introduce them to DCVA. Tell them what we do. Invite them to our events. Tell them to visit the web-site. Let them know that DCVA is listening, cares, and wants their energy!

As I look back, 2011 was a challenging and exciting year for the watershed. And it looks like the number of challenges for 2012 will continue. DCVA needs your energy and support. Get out there!



*The schematic designs for the proposed
Community Recreation and Environmental Center
at Haverford Reserve*

Annual Meeting

Update on Haverford Reserve Election of members for the Board of Directors

This year's annual meeting will feature a discussion of the status and current development at the Haverford Reserve. As noted in the President's Pen, DCVA was very involved in influencing the outcome of the restoration of that property. The meeting will also include updates and displays from the DCVA committees including Stream Monitoring, TAG Grant.

We will also be electing/re-electing the members of the DCVA Board of Directors. A Nominating Committee, consisting of John Furth, Clyde Hunt and Toni McIntosh have conferred and are putting forward the following slate of candidates: Incumbents Robin Mann, Fritz Thornton, Anne Ackerman, Tim Devaney, and Scott Maitis have agreed to serve for another 3 year term. Maya Silva and Ed Silverstein will serve 3 year terms, Jan Haigis agreed to serve 1 year, and John Haigis agreed to serve 2 years. Requesting the title of Board Emeritus are Jan Marie Rushforth and Carolyn Laws, who while not actively attending meetings, will continue to provide advice and assistance.

Additional nominations may be made from the floor at the Annual Meeting. After the meeting, a short Board of Directors meeting will be held to elect officers for 2012.

DCVA Bug Identification Workshop

Eighth Annual Insect Identification Workshop a Success!

On Saturday, November 5 we had our eighth annual insect identification workshop. The workshop was held at the Peace Center at Friends Meeting in Springfield. Many thanks to the Peace Center for letting us take over the room for the day and turn it into our own laboratory.

The purpose of the workshop was to identify the insects we sampled from five(5) locations on Darby Creek on April 16. The five locations are: Bartram Park in Darby, Darby Creek Road in Havertown (downstream from the Haverford Reserve), Skunk Hollow in Radnor, the Brandywine Preserve at Waterloo Mills in Easttown Township, and the Swedish Cabin in Upper Darby. Taking samples from the creek is the easy part! You get to wade into the stream, you get a little wet, you get a little dirty, you collect your samples, and you have a lot of fun. And we did. But, it takes a lot of time and a lot of commitment to separate the 'bugs from the crud' and identify what you have in each sample. Why is it important to take samples of water bugs from the creek? The bugs we take from each site tell us a story about the water quality of Darby Creek at that particular site. Some organisms, such as mayflies, are known to be sensitive to pollutants. If the mayflies are in the sample, the water quality at that site is considered to be relatively clean. If the mayfly is not in the sample, and it should be, its absence is an indication of questionable water quality at that site. The little bugs provide a big picture of the water quality of Darby Creek.

We had a GREAT turn out! A group of 15 to 20 people got together early Saturday morning to get started. Our goal was to process all the samples collected during the April Stream Watch, 10 large samples jars full of bugs, mud, and crud! Our collection procedure and identification procedure was based on the PA Snapshot worksheet provided by the PA Department of Environmental Protection, Citizens Volunteer Monitoring Program. The procedure we used in the identification workshop was to pour everything out of the sample jars into flat trays and visually separate any bugs seen in the sample. We did this for approximately 90 minutes. We then spent the next 90 minutes or so identifying the bugs we found. We used microscopes, available reference material, such as textbooks and the identification chart provided by the PA Snapshot people. Once identified, we categorized the insects as either sensitive, moderately sensitive (aka: facultative), or tolerant, based again on the PA Snapshot information.

Sounds tough? Sounds hard? Sounds like rocket science? Nah! We had some kids and some adults who never saw a mayfly before, and we had some people with some knowledge (okay, maybe more than some knowledge). By the end of the day, everyone could identify the bugs at the level needed. It was a lot of fun. We also spent a lot of time talking about the watershed, including stressors to the watershed, ways to improve the watershed, anything was up for discussion.

What did we learn? What was the water quality of Darby Creek? I use the term 'was' because the stream is ever moving and ever changing. The water quality one day can be very different the next day. That is why the streamwatch event is called a snapshot. Here is what we learned. The water quality at Bartram Park, the



Volunteers diligently counting the collected "bugs"

most downstream site sampled, was found to have a 'Fair' water quality rating. The Swedish Cabin, upstream from Bartram Park was found to have a 'Fair' water quality rating. The Havertown and Brandywine Conservancy sites were found to have a 'Good' water quality rating. The Radnor site was found to have a 'Very Good' quality rating, the highest rating of any of our sampling sites. Fair means that the insects identified were either in the tolerant or facultative category. Fair indicates that a stream location is stressed either by pollutants, changes to the surroundings around the stream, or by changes to the stream itself. Good indicates that, in addition to the tolerant and facultative insects identified, some sensitive species were also identified. Good means that the stream conditions at that site are such that it can provide adequate habitat and environmental conditions for some sensitive species; but there is room for improvement. Very good means that there are quite a few sensitive species in that part of the stream and can provide habitat for sensitive species of stream critters, including some of the more sensitive fish species such as trout.

What's next? We keep sampling, of course! Our database is small and needs to be expanded. We need to determine water quality over time for a long period of time. We also need to increase the number of sample sites to get a bigger picture of Darby Creek. Four sites do not cover a lot of territory, but it is a start. Here's where you come into the picture; we need your help. We need more volunteers for the streamwatch and we need more volunteers for the insect identification workshop. The next streamwatch will be this coming April. Stay tuned for the specific dates. And remember, we can only do as much as you are willing to do yourself.

Many thanks to everyone who helped make the insect identification workshop a success.



Derron LaBrake and his daughter Aileen are heads down at Bug ID workshop

Sex Alteration in Aquatic Wildlife: Reducing Pharmaceuticals in Pennsylvania Waterways

Contributed by: Maddy Butts, Alex Doms*, Alex Hite*
Colgate University, Hamilton, NY*

The United States spends over \$735 billion dollars a year on pharmaceuticals, which constitutes half of the world's pharmaceutical consumption. Our dependence on pharmaceuticals has immensely increased over the past century due to scientific breakthroughs, physicians over-prescribing medications, and aggressive marketing by pharmaceutical companies. With continual consumption, and very few regulations concerning their disposal, these chemicals inevitably end up in the environment, causing detrimental effects to wildlife.

When a person consumes any type of drug, it is not fully metabolized by the body, and the excess is then excreted into wastewater. Wastewater treatment plants are not equipped to filter out these harmful drugs, so they are released as effluent into surrounding waterways. While these drugs are created to have a positive biological effect on humans, they generally have adverse effects on wildlife. The USGS PA Water Science Center conducted a study on streams across Pennsylvania, and found significant amounts of antibiotics, antidepressants, anti-inflammatory drugs, caffeine, triclosan (an ingredient in hand sanitizers) and synthetic estrogens in the water. All of these compounds can have harmful effects on freshwater organisms, but the most widely studied is the effect of synthetic estrogens from birth control pills.

Several studies have shown that the presence of estrogen, even at low concentrations, has several effects on animals' reproductive systems. The most shocking effect of estrogen, a female hormone, is the feminization of male fish. Repeated exposure to estrogen causes delayed development of both male and female reproductive systems, and can eventually feminize the male fish. In many cases, male fish will develop oocytes, and their sperm counts are much lower than healthy males. Male fish have also been found to contain proteins associated with egg yolk, typically only found in females. Feminization causes a drastic reduction in reproductive success for populations that are exposed to these hormones. A different sort of effect was shown in a study published in the Proceedings of the US National Academy of Sciences in 2008 by K.H. Brown et al., showed that experimental exposure to estrogens caused broken chromosomes in trout sperm and subsequently death in the offspring that arose from these sperm. These effects could potentially lead to the collapse of a population.

Environmental estrogens and other pharmaceuticals in aquatic ecosystems can affect more than just a few species of fish. The collapse of a population due to the presence of synthetic hormones greatly reduces the biodiversity of that ecosystem. The elimination of one species in a community can disrupt the food chain, which can lead to the extinction of more species in that ecosystem. We should care about the loss of biodiversity because wildlife are ultimately a food source, and also shape our environment. For example, in a 2003 study by G. Toft et al., researchers found that the mosquitofish is one species of fish that is negatively affected by endocrine-disrupting chemicals. These fish eat mosquito larva, which controls the mosquito population. If mosquito

fish are eliminated, the number of mosquitoes will rise, making us more susceptible to mosquito-borne diseases, such as West Nile virus, Yellow fever virus, and Dengue fever virus. Because this issue has ramifications for both wildlife and humans, something must be done to prevent the discharge of pharmaceutical compounds into aquatic ecosystems.

The US EPA does not currently regulate drug elimination in wastewater, but it is working towards labeling these compounds as hazardous waste. By labeling these drugs as hazardous waste, it would enable the government to create laws that regulate their removal from wastewater. Although regulation is a good first step, it is a long, complicated process, and is also extremely costly. Research is being done to develop more efficient and sustainable removal methods. For now, individuals need to take action by reducing unnecessary consumption. In addition, you can heed federal guidelines for the proper disposal of unused pharmaceuticals (see link 1 below). Lastly, in many counties of Pennsylvania, there are drug take-back programs. The Pennsylvania Department of Environmental Protection provides information on these programs and guidelines for disposal (link 2 below). You can even organize drug-take back programs with local pharmacies, organizations, or town governments. Every effort to reduce the contamination of waterways by pharmaceuticals is a step towards making our waterways safe!

1. <http://www.epa.gov/ppcp/faq.html#how>

2. <http://www.portal.state.pa.us/portal/server.t?open=514&objID=589595&mode=2>

*Undergraduate at Colgate University, Hamilton, NY

Note from the Editor: "Please don't dispose of your extra drugs or medications down a toilet. Improper disposal can impact stream health and more"

Volunteers for DCVA are Welcome!

Come Join Us – You will have fun!

As you read through the pages of this newsletter you are learning about the work done by the members of the DCVA - all of whom are volunteers. As you read through the articles you can appreciate the work that has and continues to be done by some very talented and enthusiastic people.

You can be one of them!

Even if you don't volunteer directly, you can help just by picking up trash as you are enjoying walks along the creek and being observant and reporting problems that you see along the creek bank or anywhere in the watershed.

If you want to be involved in a bigger way there are opportunities throughout this newsletter. We look for volunteers with the Community Liaison group, Darby Creek Clean Up, Education, the TAG grant.

Come join us – we are a great group doing good work. Membership and support information can be found on page 9.

Governor Printz Challenge



This year's annual Governor Printz Challenge featured seven(7) participants in six(6) racing Kayaks.

Long time president Fritz Thornton, who attended the race this year, commented that he and Dave Anderson laid out the course over 15 years ago and that the first participants raced in two(2) man "camper" canoes. There was also a junior and senior division in the early races. To qualify for the senior division the combined ages of the bowman and the sternman had to be greater than 100 years.

Other board members in attendance at this year's race; Jaclyn Rhoads (race coordinator), John Furth, Ann Jackson, Alan Samel, Olga Thornton and Jan Marie Rushforth saw the racers off at the dock in Heinz wildlife refuge and then scrambled into our cars and "raced" down to Governor Printz park to be there when the racers arrived.

As ever, both participants and observers enjoyed the race. The winner this year was Cliff Roach at 45:34.



Participants: Rosemary Murry (1:16:20), Cliff Roach, Andriy Lyssino (47:29), Glen Green,(51) Erik Warner (51:10), Dmitry Slaviol (55:20), Hope Mattingly and Allyson Adams (1:02:20) join Jaclyn Rhoads (center) at Gov. Prinz Park



DCVA Board President Alan Samel and Vice President Ann Jackson snap photos as the race begins

JOIN THE DARBY CREEK VALLEY ASSOCIATION TODAY!

The Darby Creek Valley Association (DCVA) is dedicated to the protection and enhancement of all of the watershed's resources, including water, wildlife, historical sites and the floodplains. The organization's immediate goals are to prevent all forms of pollution in the Darby Creek and its tributaries, to prohibit dumping and construction on the floodplain and to expand our educational programs for all residents within the watershed. It also seeks to improve water quality and maintain a debris-free stream through clean-ups and public education. DCVA works to preserve historic properties, such as the Swedish Cabin and the Blue Bell Inn. The Association would like to set aside the more than 30 miles of valley for use as a greenway for all residents to enjoy. We need your support. Help us continue to protect the environment for ourselves and our children.

We invite you to fill in the form below, check member category, and mail form with your check to:

The Darby Creek Valley Association, P.O. Box 732, Drexel Hill PA 19026

Name: _____ Date _____

Address _____ City _____ State _____ Zip _____

My phone is _____ email is: _____ Municipality _____

- Individual Member.....\$25.00
- Family Member.....\$35.00
- Senior Citizen or student.....\$10.00
- Corporate or Municipality.....\$50.00
- Non-Profit Group.....\$35.00
- Life Member.....\$250.00

Amount enclosed \$ _____ Please check all the items that apply above.

DCVA is a 501(c)(3) Non-Profit organization - All donations are tax deductible to the fullest extent of the law

CALENDAR

Environmental Summit	Saturday, February 18, 2012 at Heinz Refuge http://delcoenvironmental.tripod.com/
DCVA Annual Membership Meeting	Saturday, March 3, 2012
Stream Watch	Saturday, April 21, 2012
Annual Cleanup	Saturday, April 28, 2012
DCVA Board Meetings	Delaware County Peace Center, Springfield, PA 3rd Saturday, Monthly (Subject to Change)

Except where otherwise noted, please check www.dcv.org for additional information

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